

2/25
Y0999-131

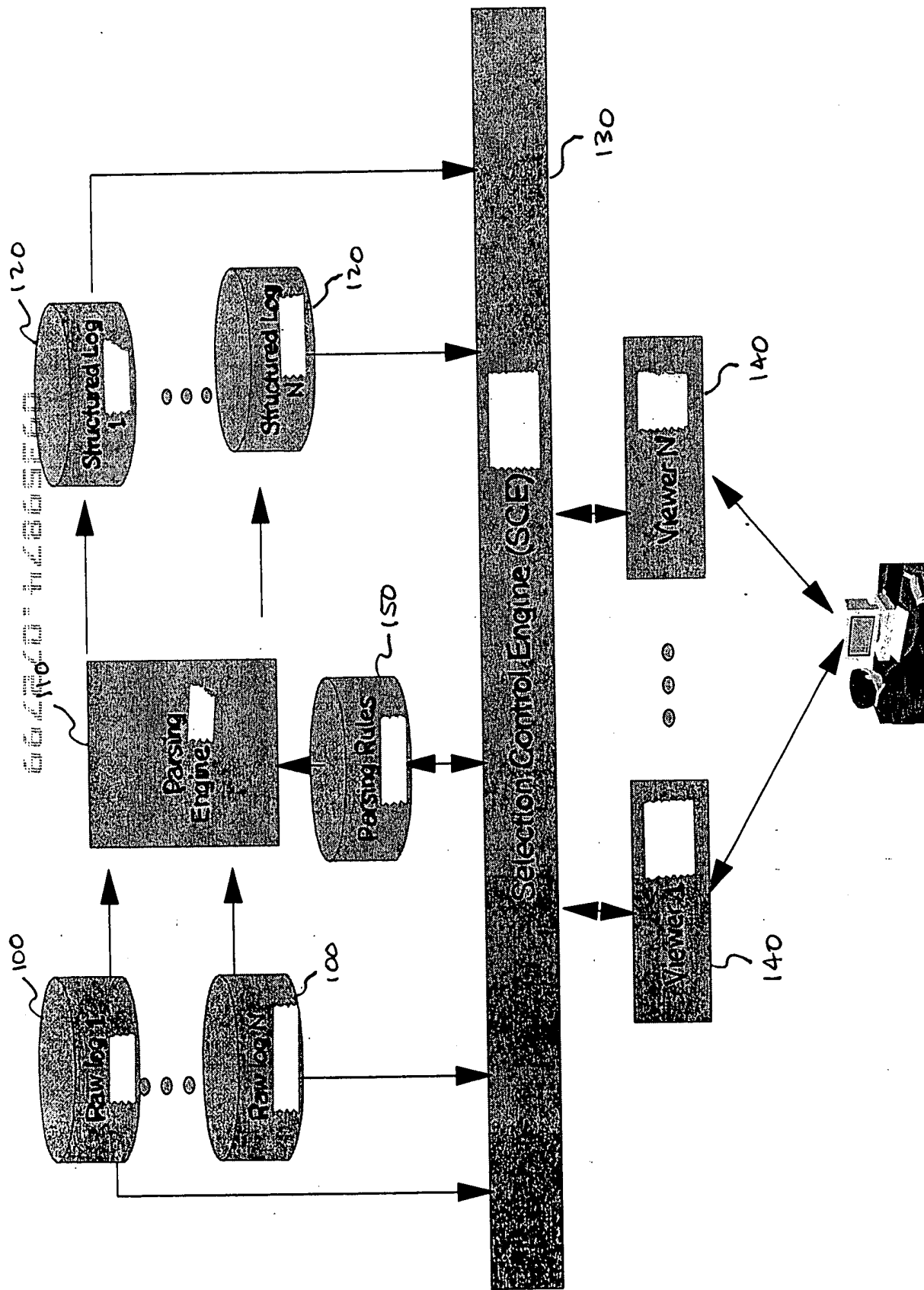


FIG. 2A

3/25
40999-131

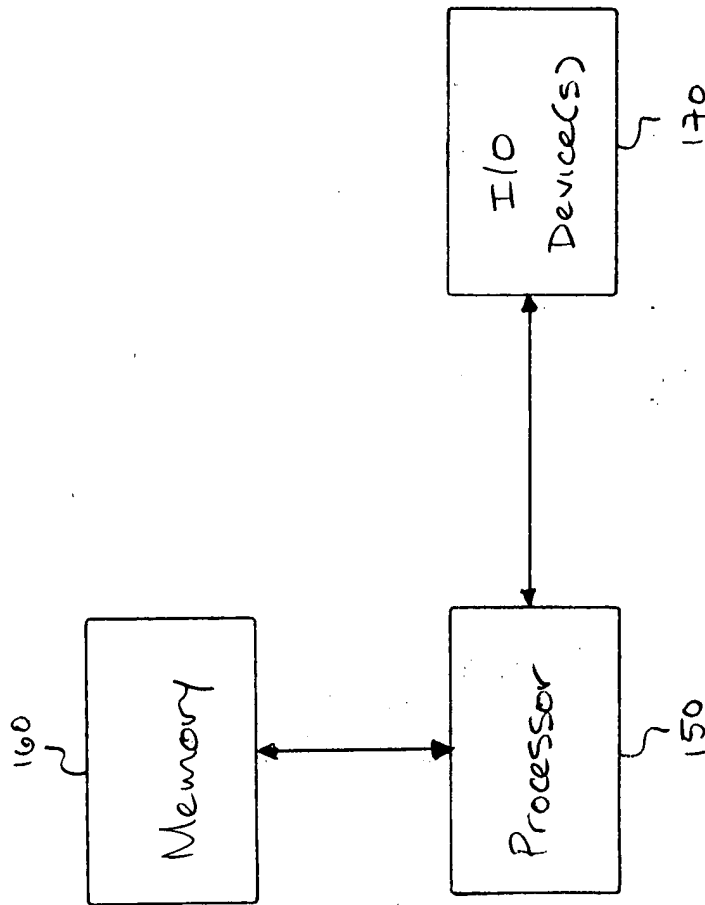


FIG. 2B

4/25
40999-131

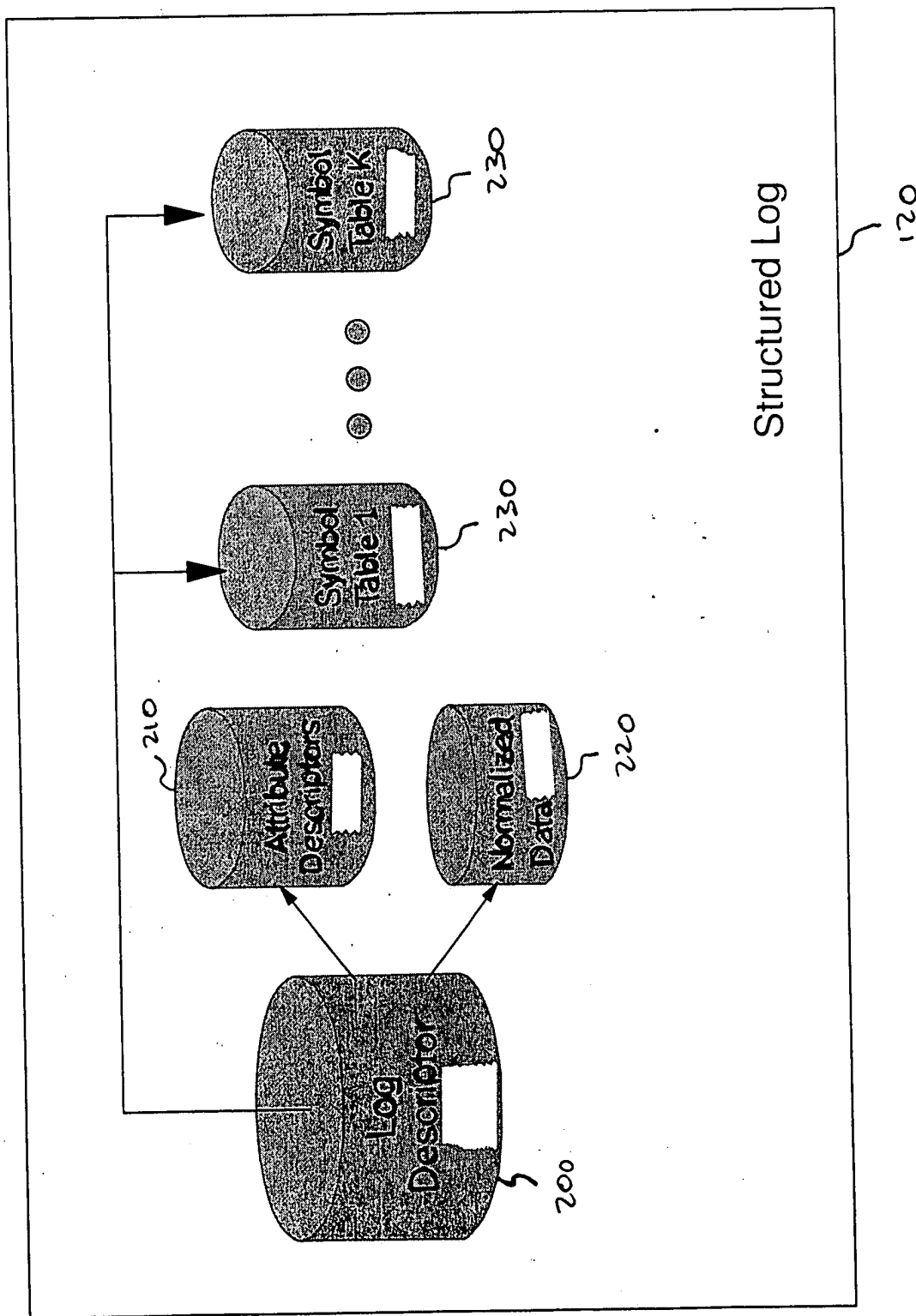


FIG. 3A

Data Formats of Structure Log 120

- Normalized Data 220
 - ▶ Message index
 - ▶ Start line
 - ▶ Number of lines
 - ▶ Index in event type symbol table
 - ▶ Event time
 - ▶ Index in event source symbol table
 - ▶ ... (other attribute values in order of the indexes of symbol tables)
- AttributeDescriptor 210
 - ▶ Attribute name
 - ▶ Symbol table index (or NULL if none)
 - ▶ Column in normalized data
- SymbolTable 230
 - ▶ Symbol index
 - ▶ Descriptive name
 - ▶ Event counts

5/25
40999-131

FIG 3B

6/25
Y0999-131

66220-112500

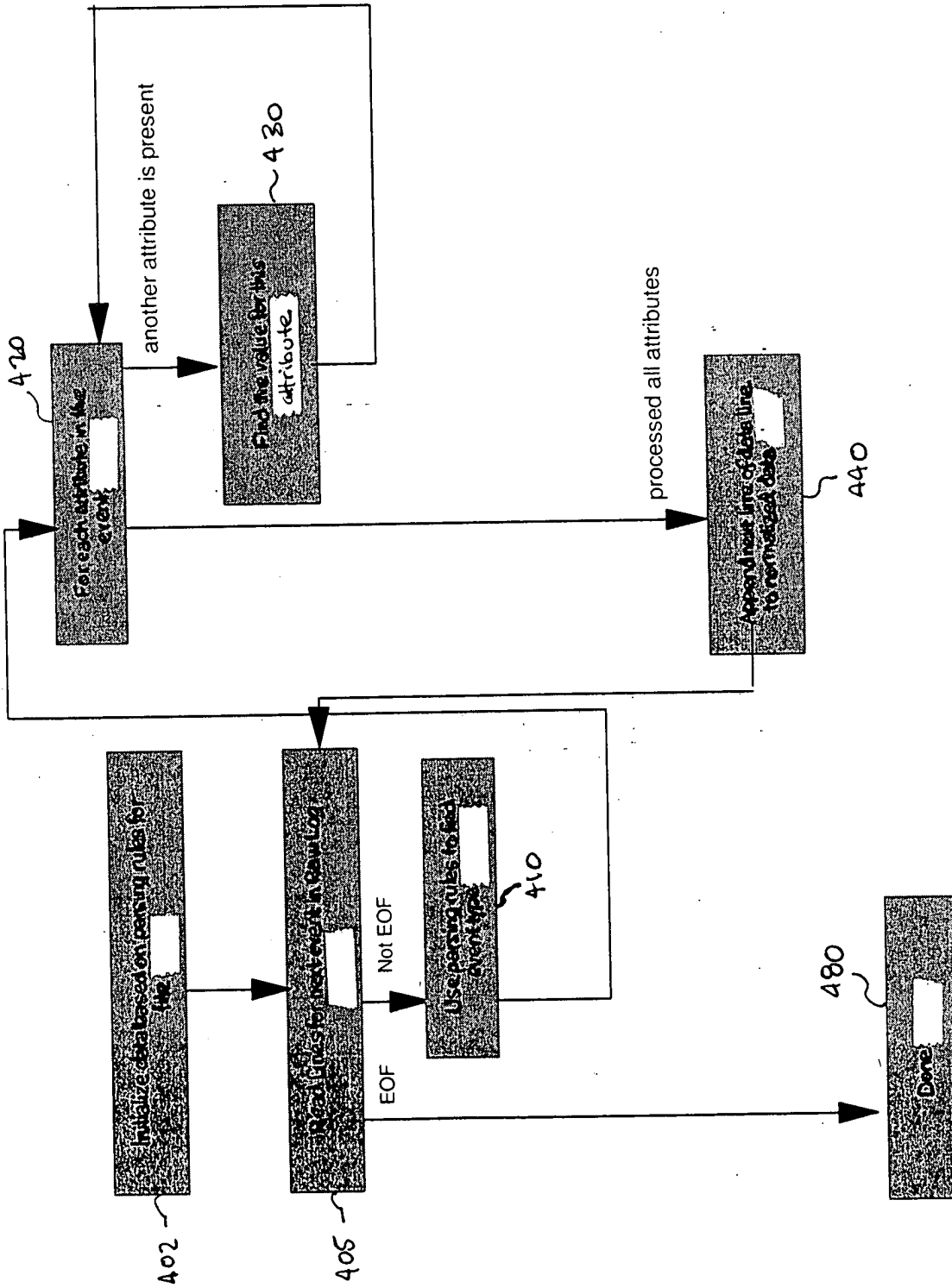
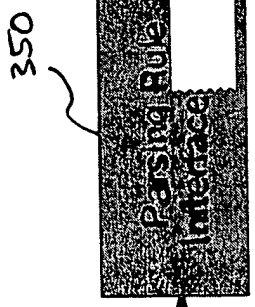
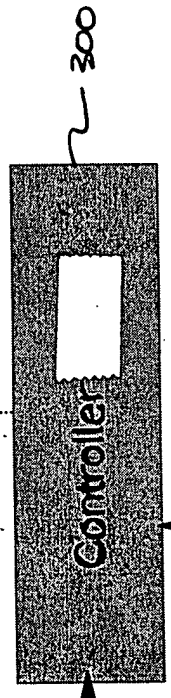
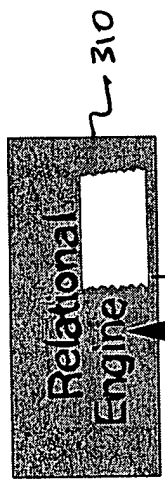
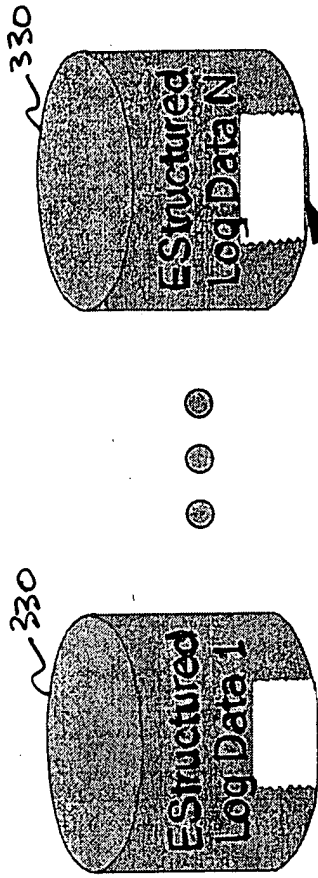


FIG. 4

7/25
40999-131

Selection Control Engine (SCE)



SCE commands

Viewer events

Parsing Rules

FIG. 5

8/25
Y0999-131

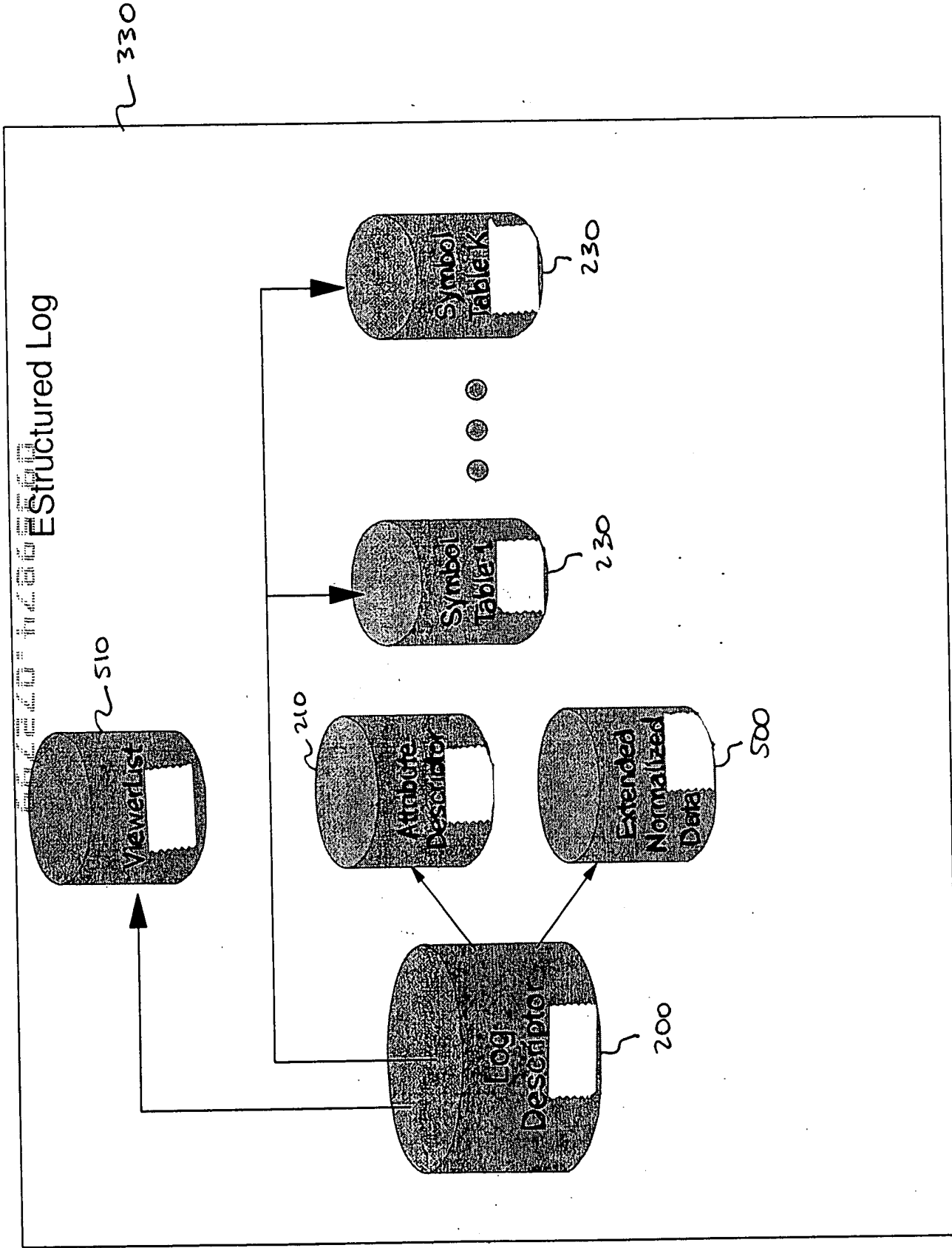


FIG. 6A

Data formats for Extended Normalized Data

- Extended Normalized Data 500
 - ▶ Display symbol
 - ▶ Display color
 - ▶ Message index
 - ▶ Start line
 - ▶ Number of lines
 - ▶ Index in event type symbol table
 - ▶ Event time
 - ▶ Index in event source symbol table
 - ▶ ControlData
 - Display symbol/color
 - ▶ AttributeConstraint
 - ▶ ... (other attribute values in order of the indexes of symbol tables)
- AttributeConstraint 520
 - ▶ Attribute
 - ▶ Value
 - ▶ Relational operator

9/25
Y0999-131

FIG. 6B

10/25
Y0999-131

COMMAND	INPUTS	OUTPUTS	NOTES
CreateELog	FileName	EStructuredLog	(1)
GetAttributeList	EStructuredLog	SetOfAttribute	
GetSymbolTable	Attribute	SetOfSymbolTableEntry	
GetData	SetOfMsgID	SetOfMessage	
	SetOfAttributeConstraint	SetOfDataRow	
	EStructuredLog	SetOfControlValue	
GetDataSummary	SetOfMsgID	AttributeCount	
	SetOfAttributeConstraint		
	EStructuredLog		
GetControlData	EStructuredLog	SetOfControlData	(1)
UpdateControlData	ControlData		
	SetOfAttributeConstraint		
	EStructuredLog		
GetParsingRule	MessageID	ParsingRule	
SetParsingRule	NewParsingRule		
	OldParsingRule		
ConstrainELog	SetOfAttributeConstraint		(1)
	EStructuredLog		
UpdateViewer	SetOfViewerID		
CloneELog	EStructuredLog	EStructuredLog	(2)

Notes

- (1) - Updates all Viewers
- (2) - Creates a new EStructuredLog

FIG. 7

11/25
40999-131

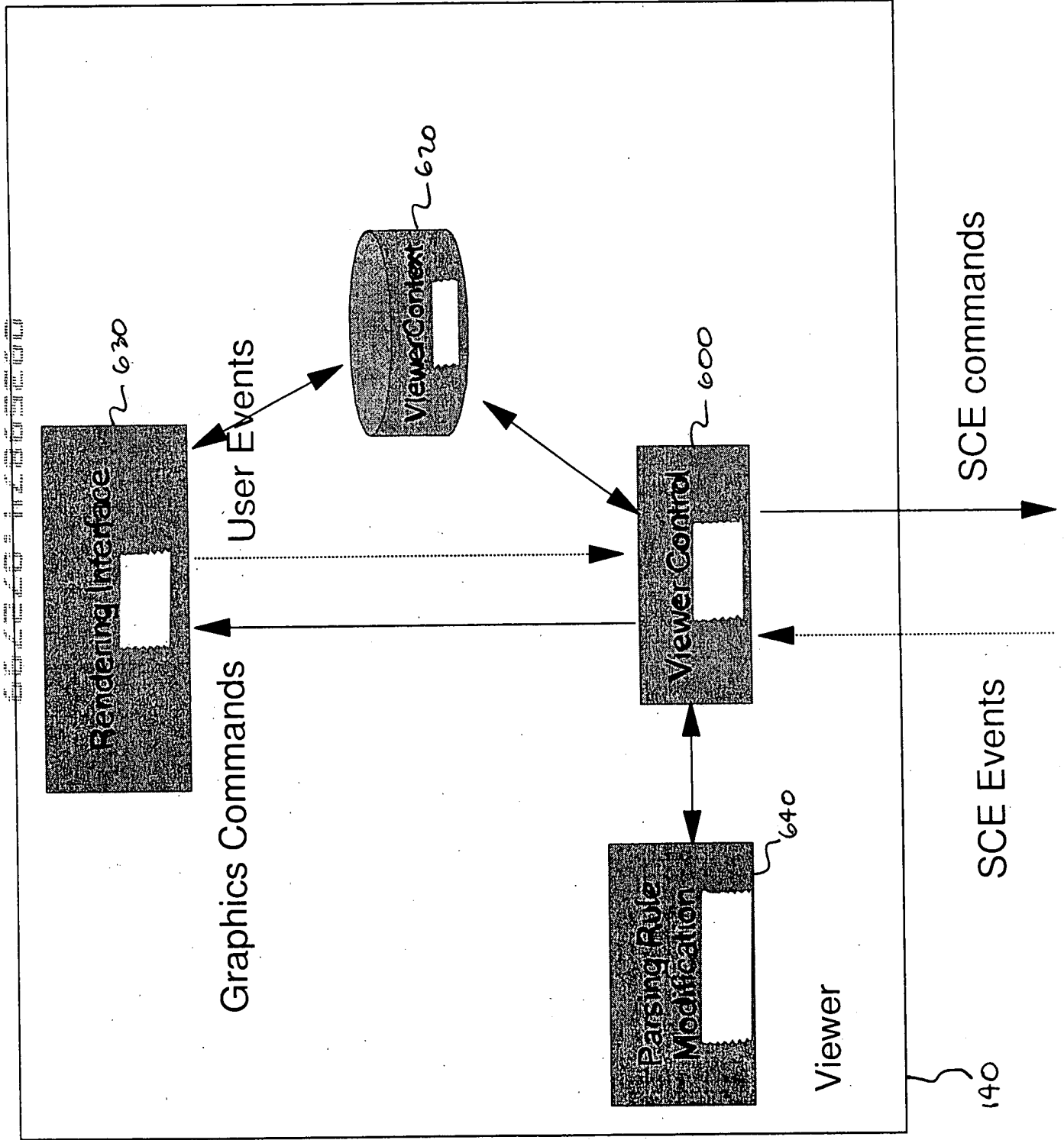


FIG 8A

66220 4263260

Methods of generic viewer

Method	Input	description
ConstructView	ELog ViewerContext	Display information in ELog in a viewer-specific way with viewer property described in ViewerContext
SelectFilterData	SetOfAttributeConstraint IsGlobal IsSelect	Select or filter a set of data.
GetELogID		Get ELogID from ViewerContext
SetELogID		Set ELog ID
GetViewerID		Get viewer ID from ViewerContext
SetViewerID		Set viewer ID

12/25
40999-131

FIG. 8B

602207489500

13/25
Y0999-131

SelectFilterData

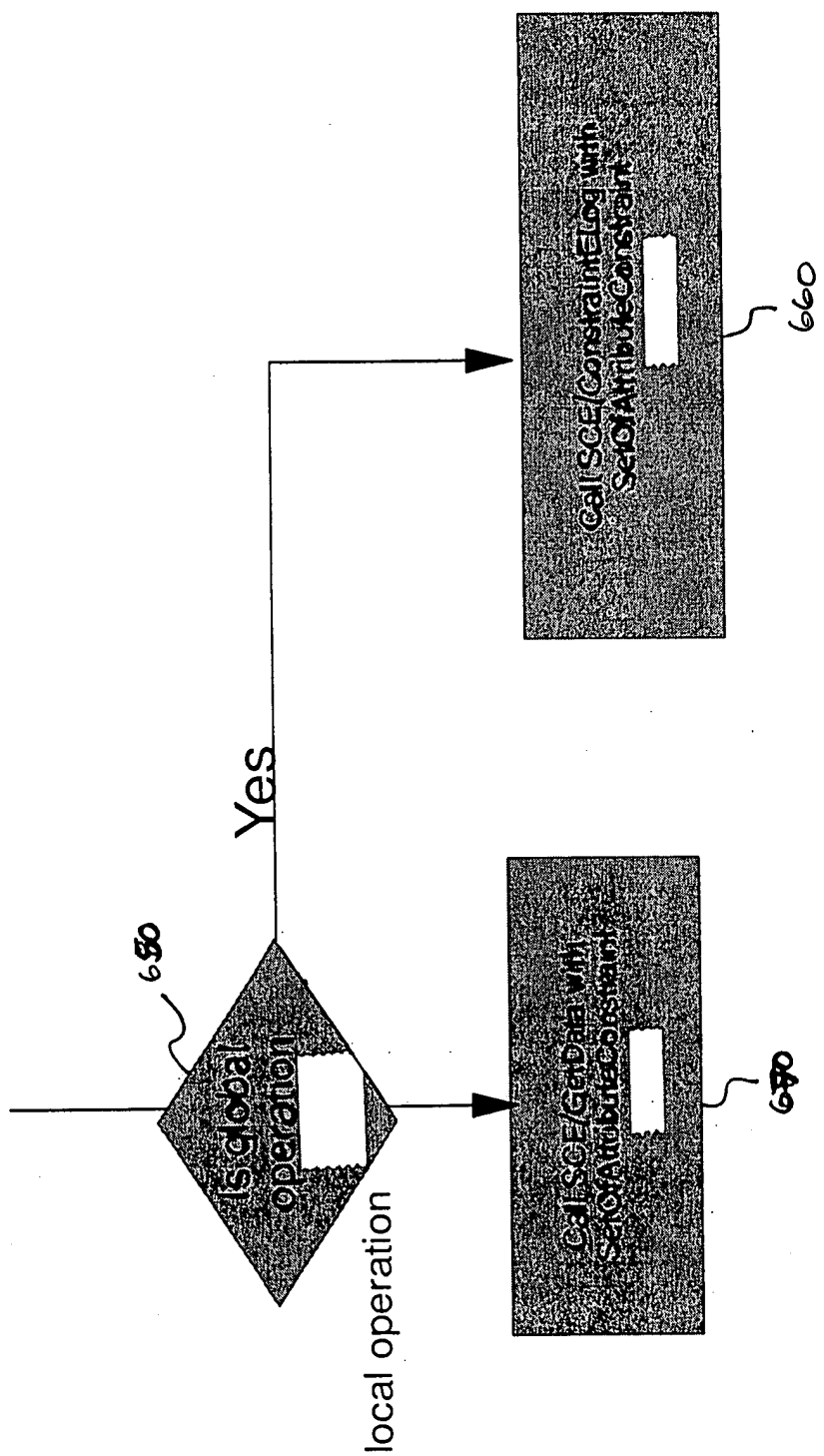


FIG. 8C

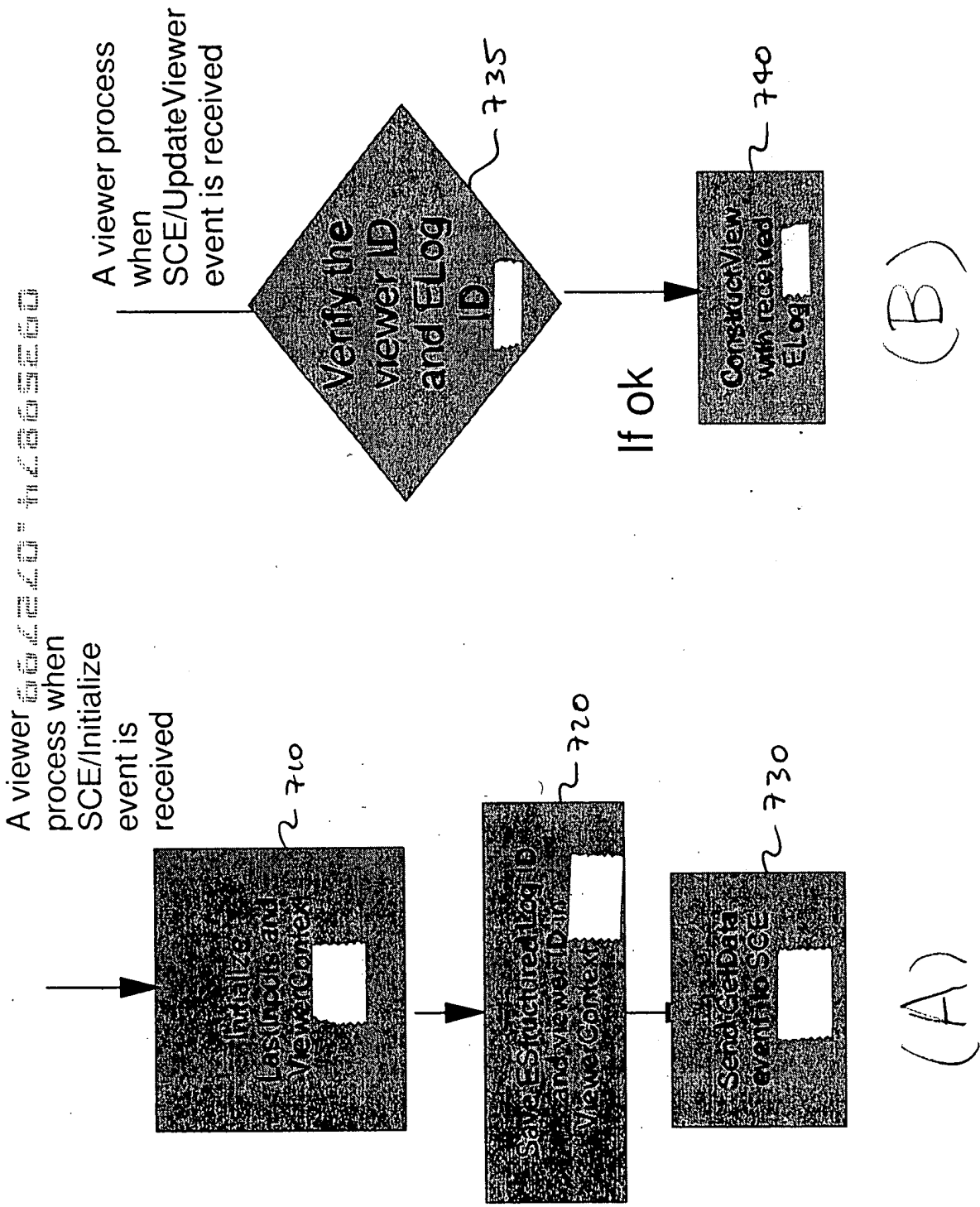
Communication events among SCE, viewer and user

Source	Target	Name	Occurrence
SCE	Viewer	Initialize	When the Viewer is initialized
SCE	Viewer	UpdateViewer	When the EStructuredLog is updated
Viewer	SCE	ConstraintELog	When a viewer performs a global selection/filtering operation
Viewer	SCE	GetData	When a viewer needs data
USER	Viewer	Button	When a Viewer button is pressed
USER	Viewer	Item	When items are selected (lists, pixels, messages, etc.)

14/25
Y0999-131

FIG. 9

15/25
Y0999-131



(A)

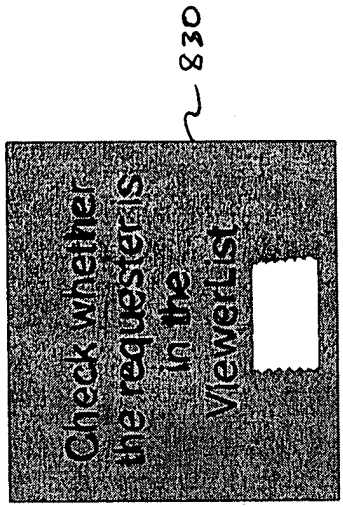
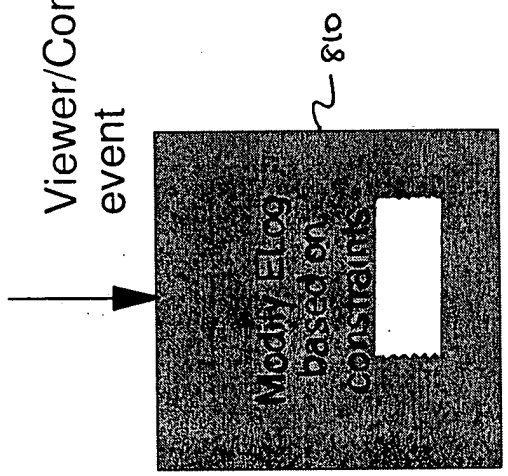
(B)

FIG. 10

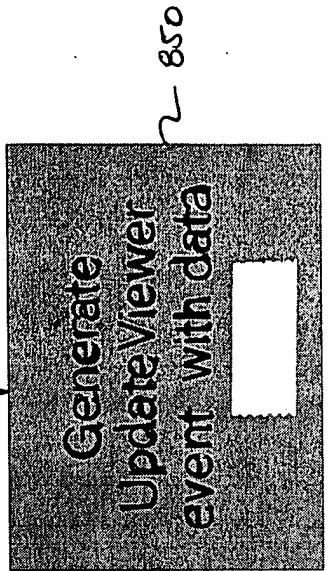
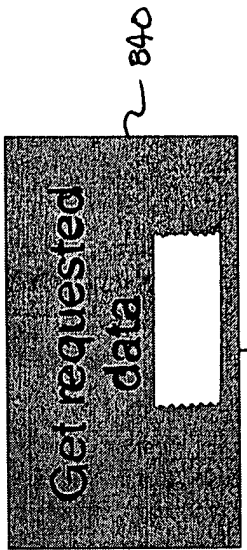
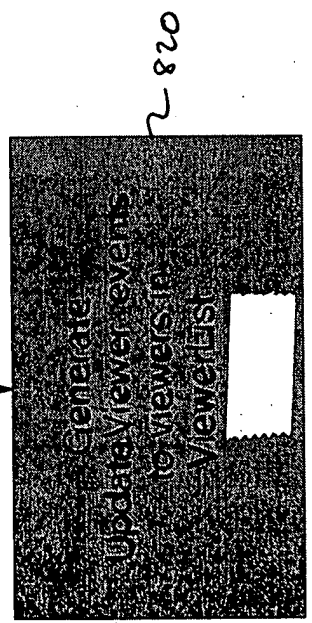
16/25
10999-131

Viewer/GetData event

Viewer/ConstraintELog



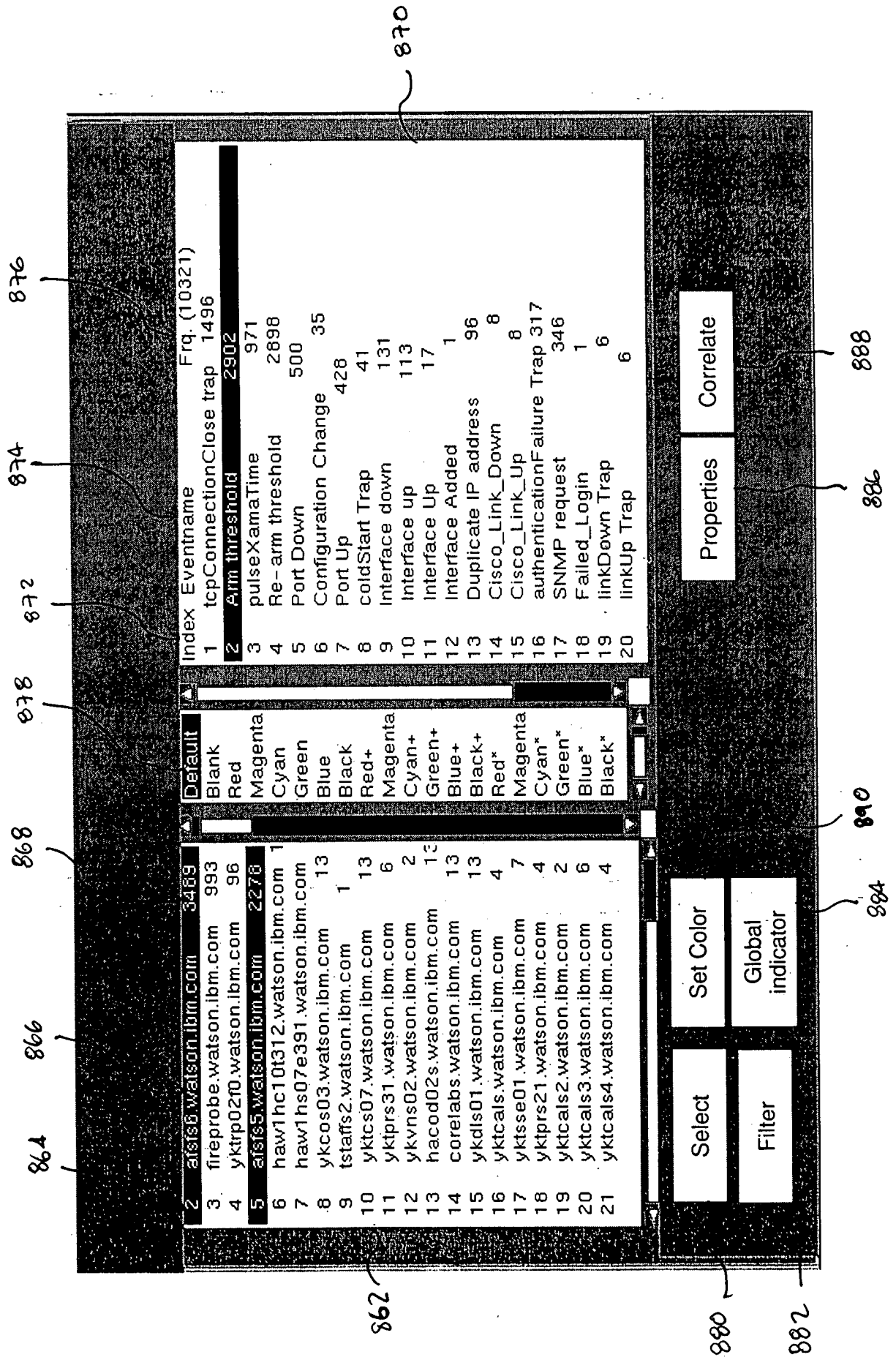
If yes



(A)

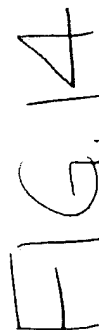
FIG. 11

(B)

[illegible]

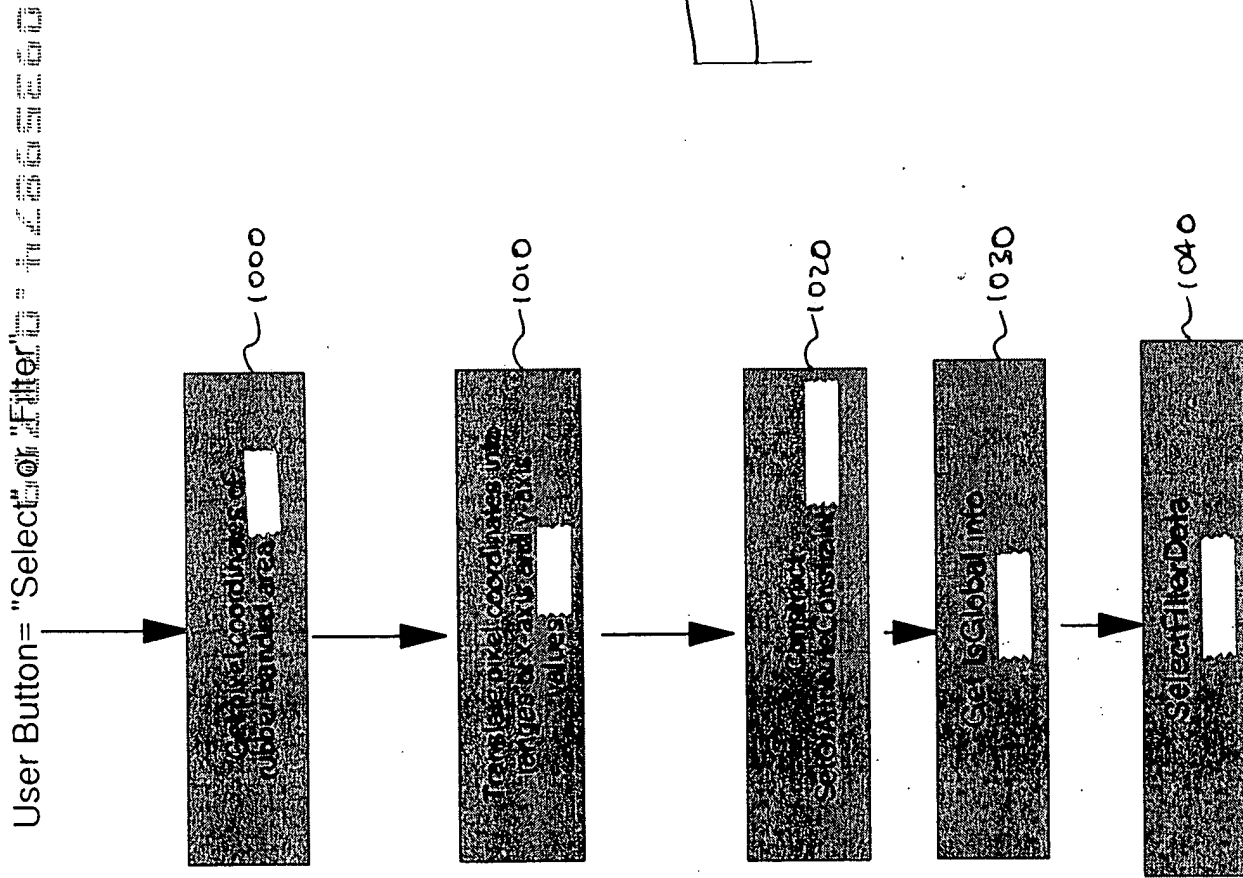
[illegible]

18/25



20/25
40999-131

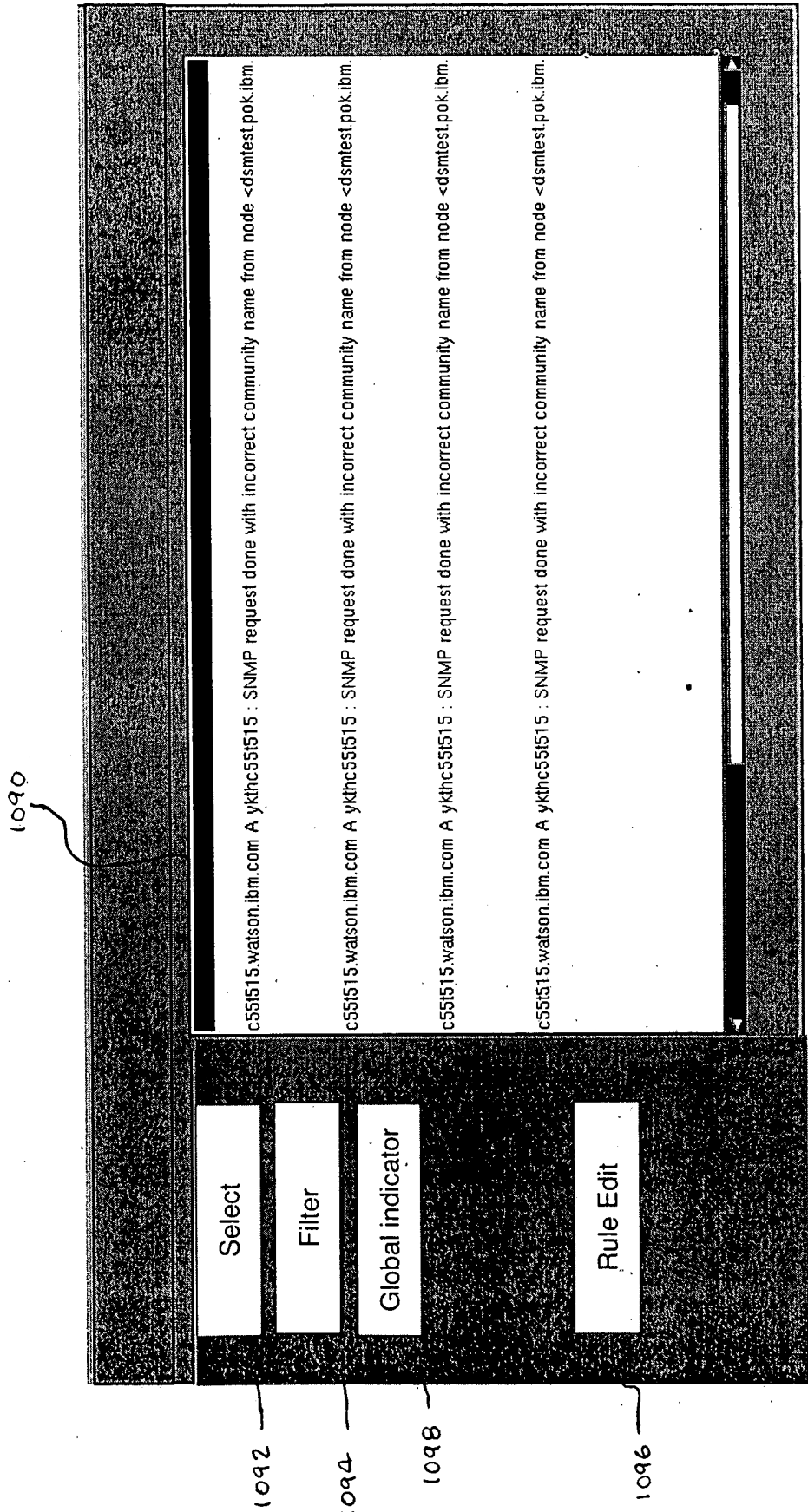
FIG 15





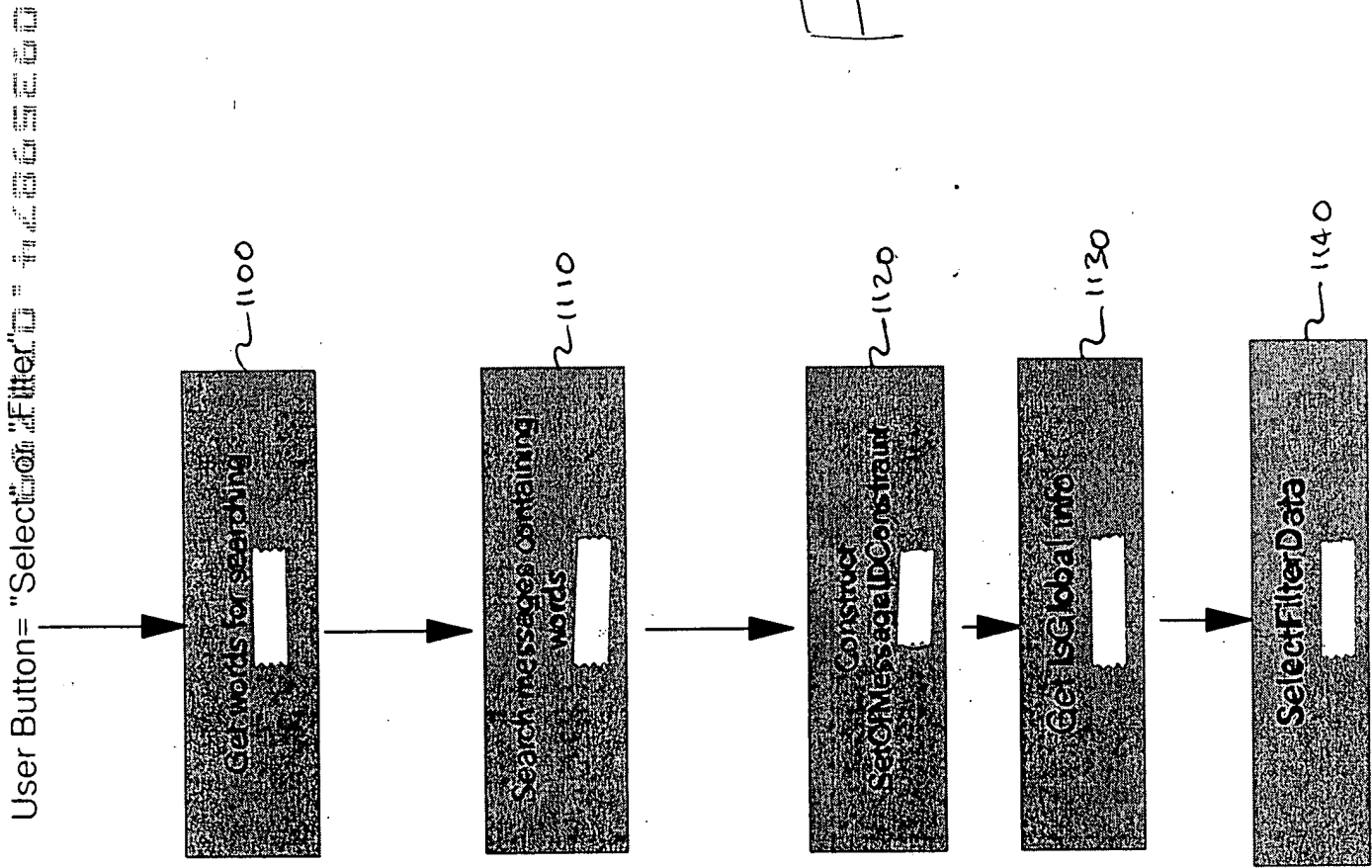
1951

22/25
Y0999-131



764

FIG. 18



24/25
Y0999-131

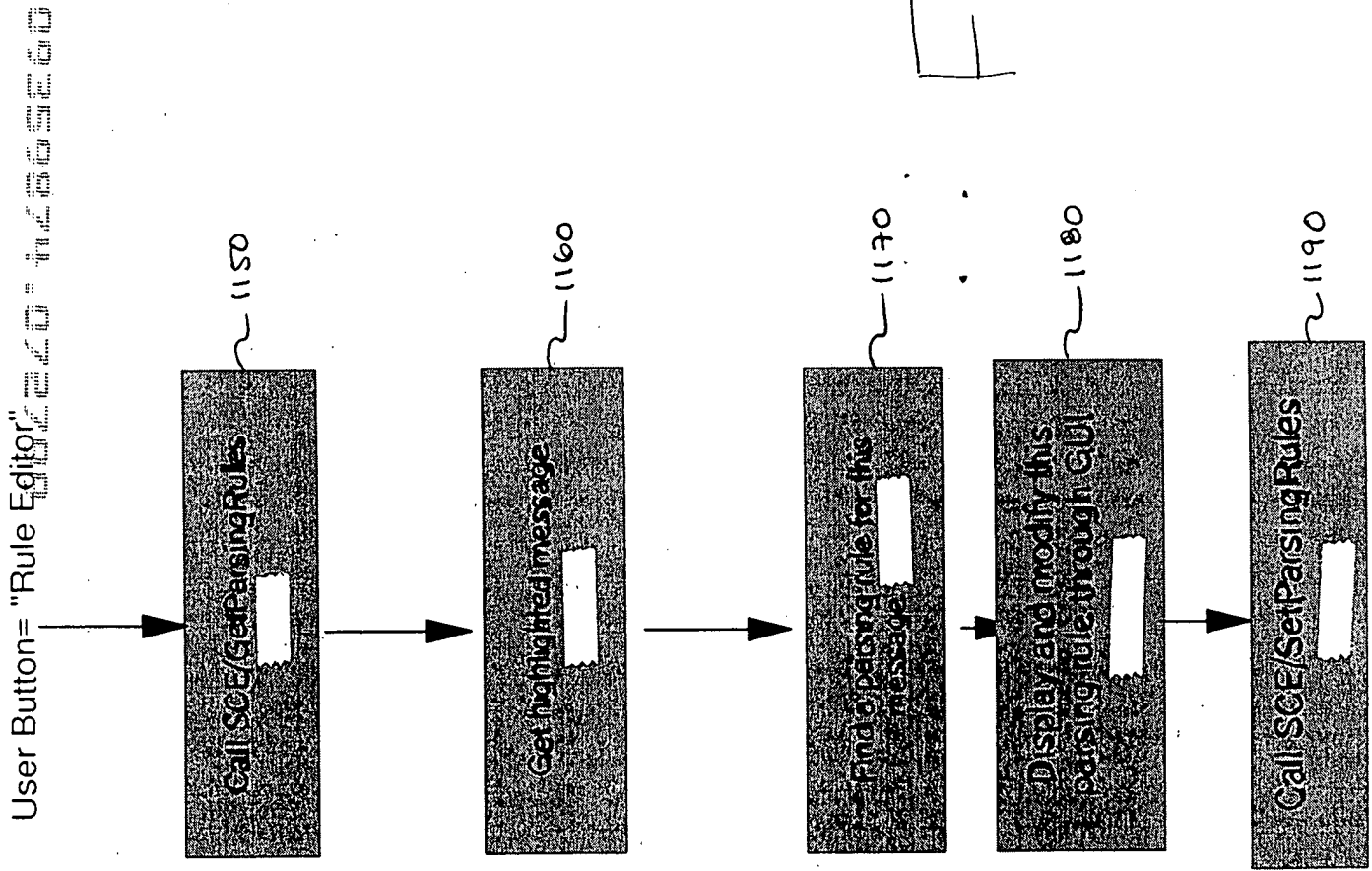
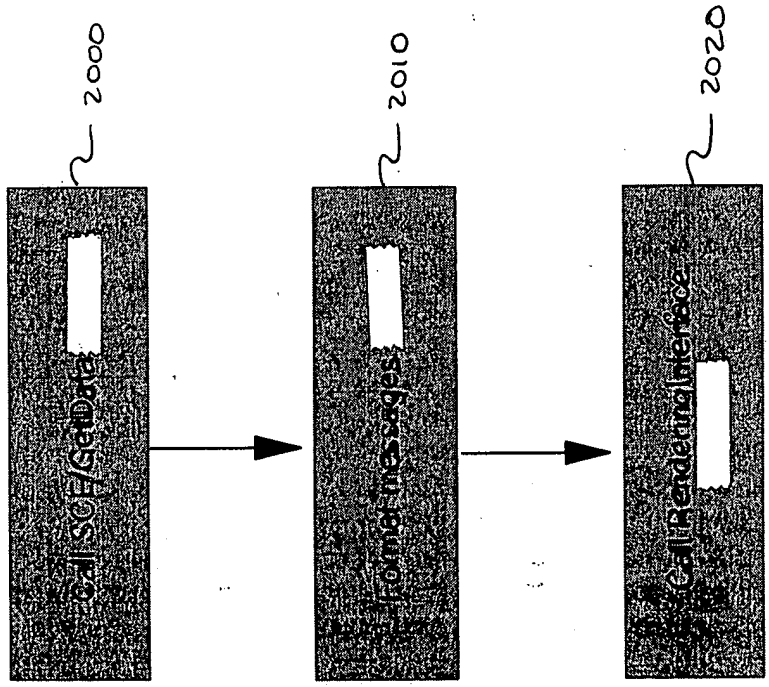


FIG. 19

25/25
Y0999-131

FIG. 20



ConstructView for Message Viewer
730

FIG. 20